



1/31

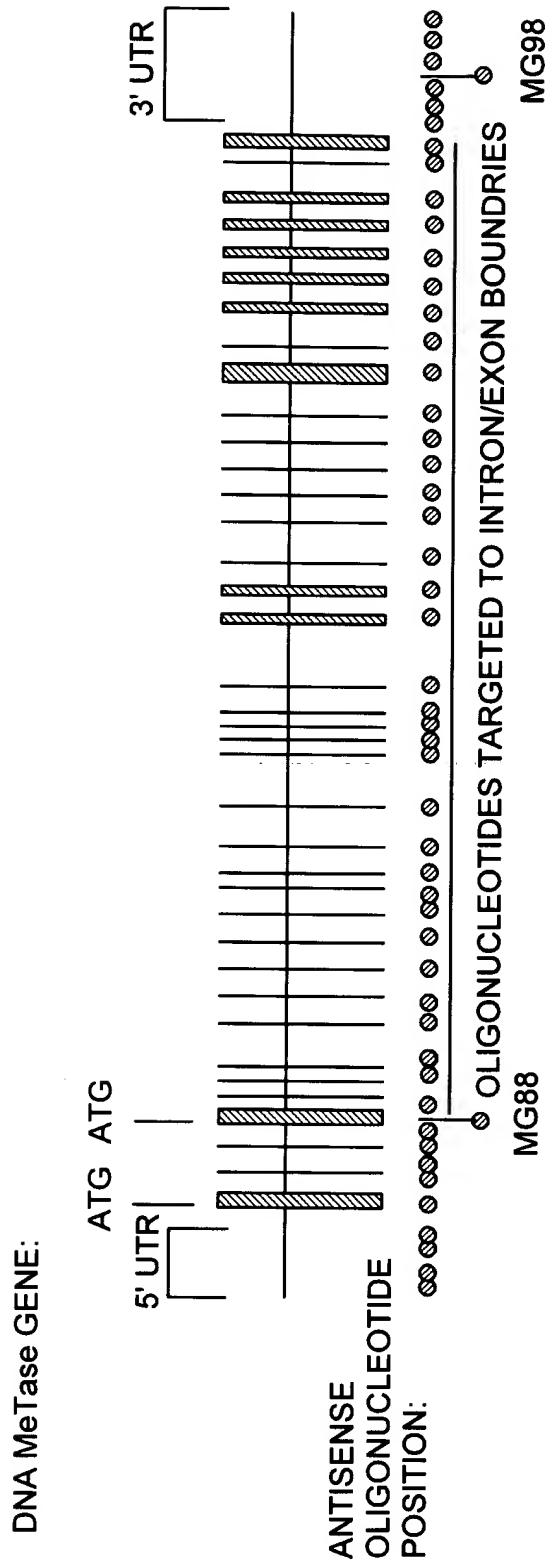


FIG. 1

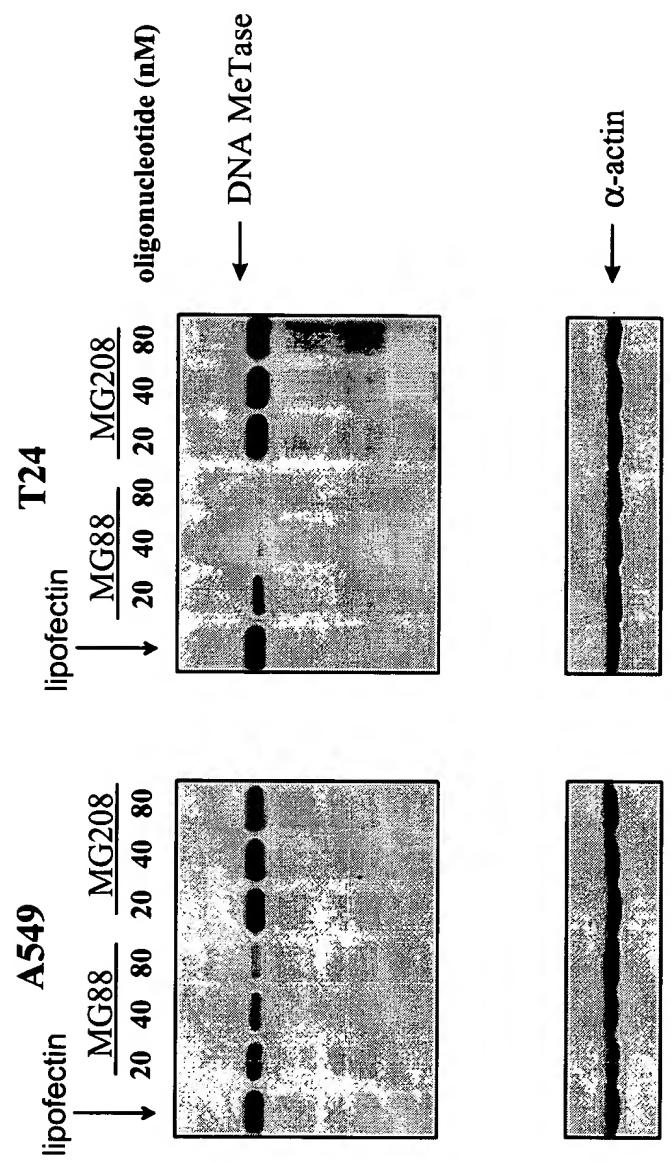


FIG. 2

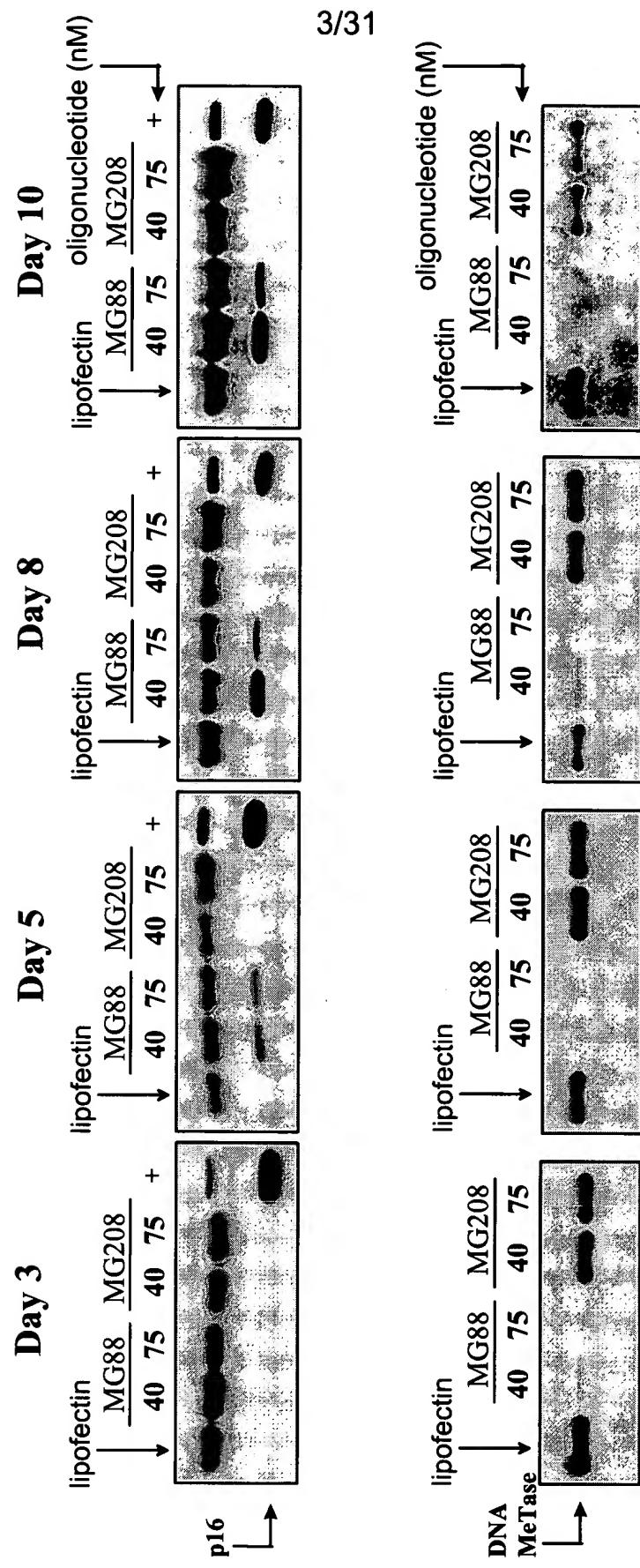


FIG. 3A

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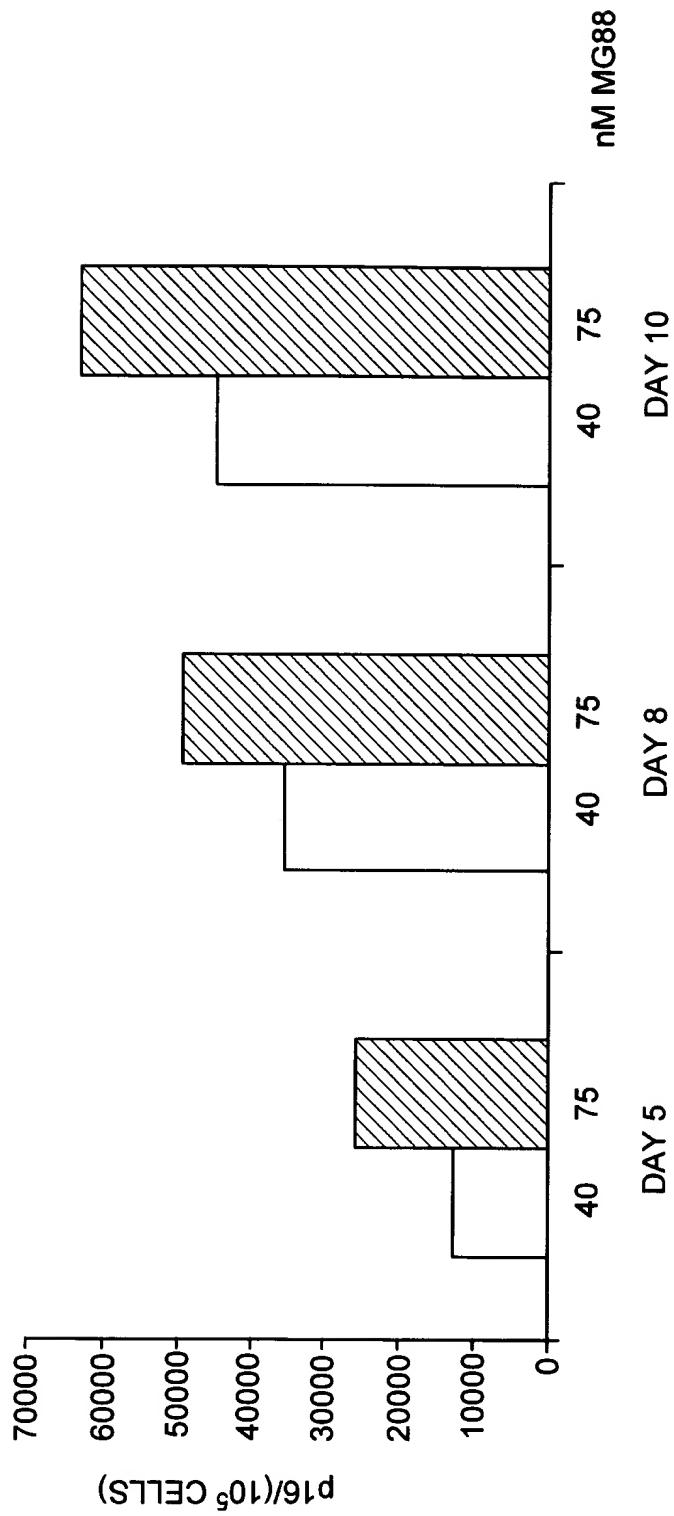


FIG. 3B

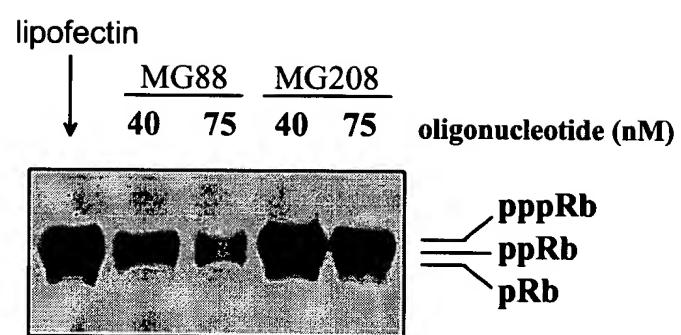


FIG. 4

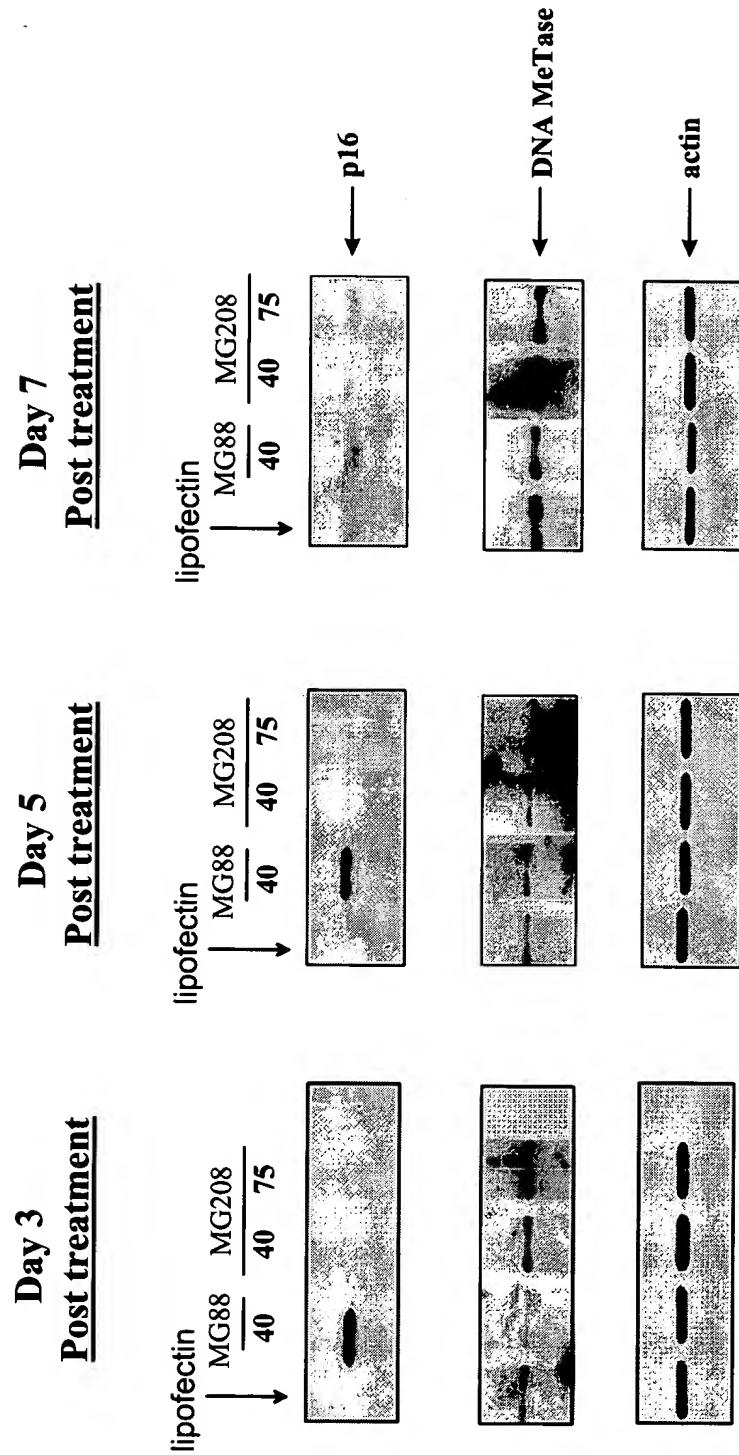


FIG. 5

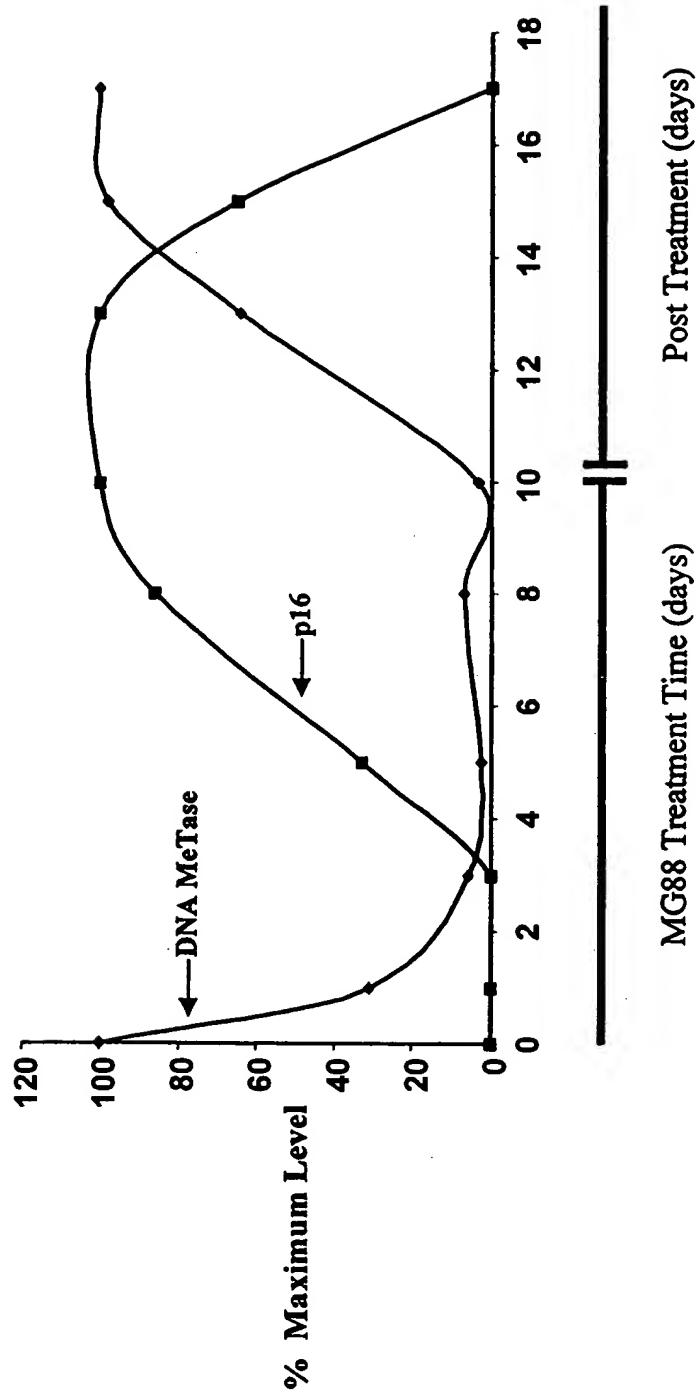


FIG. 6

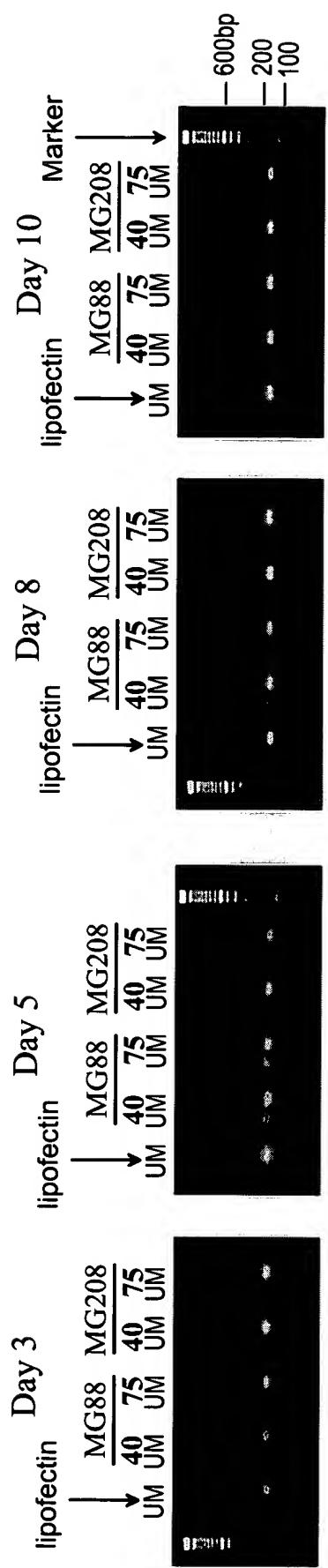
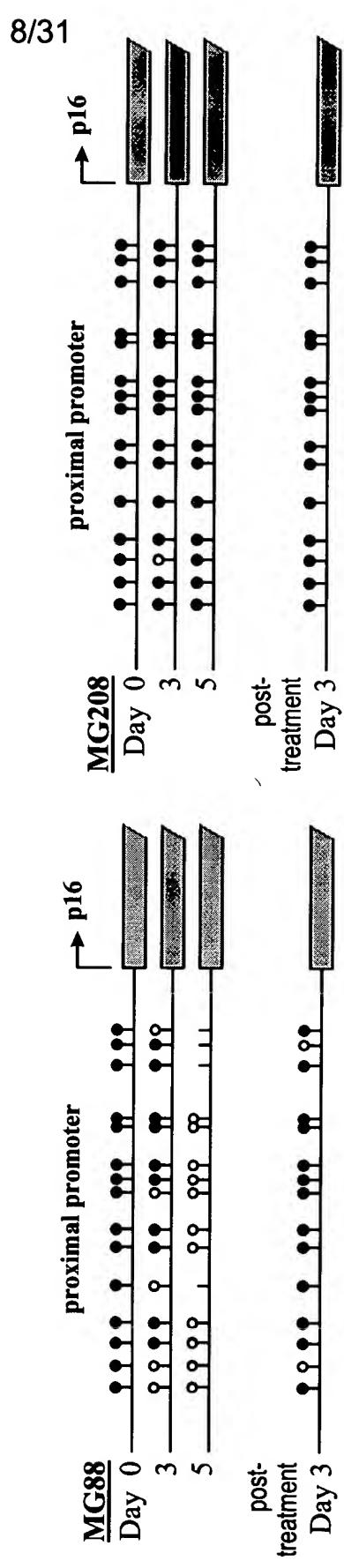


FIG. 7



* T24 Cells

FIG. 8

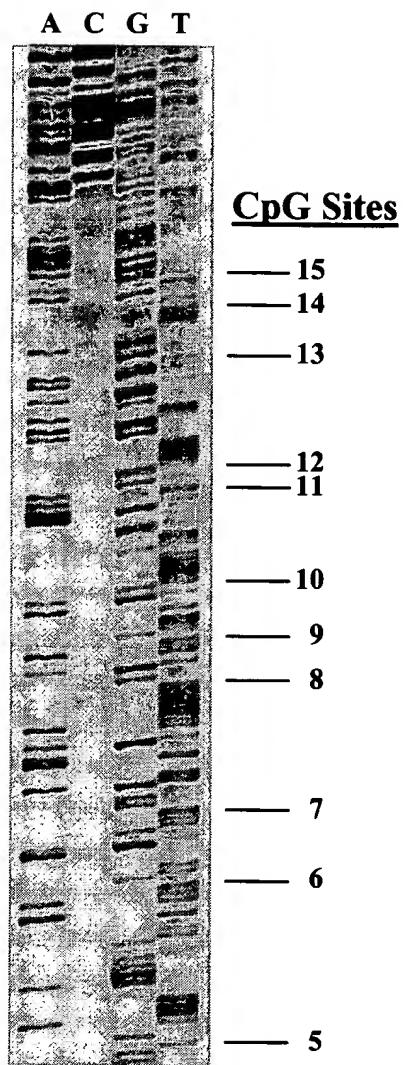


FIG. 9A

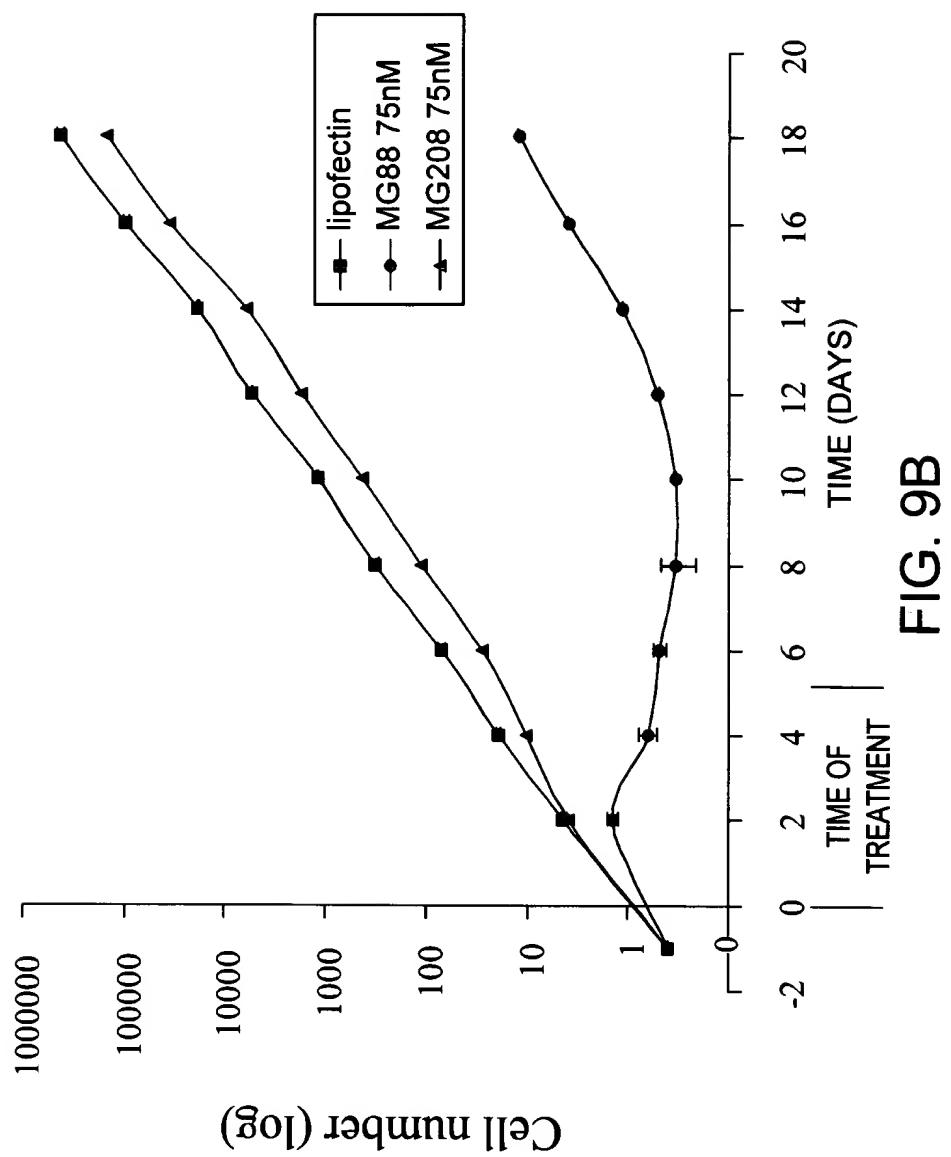


FIG. 9B

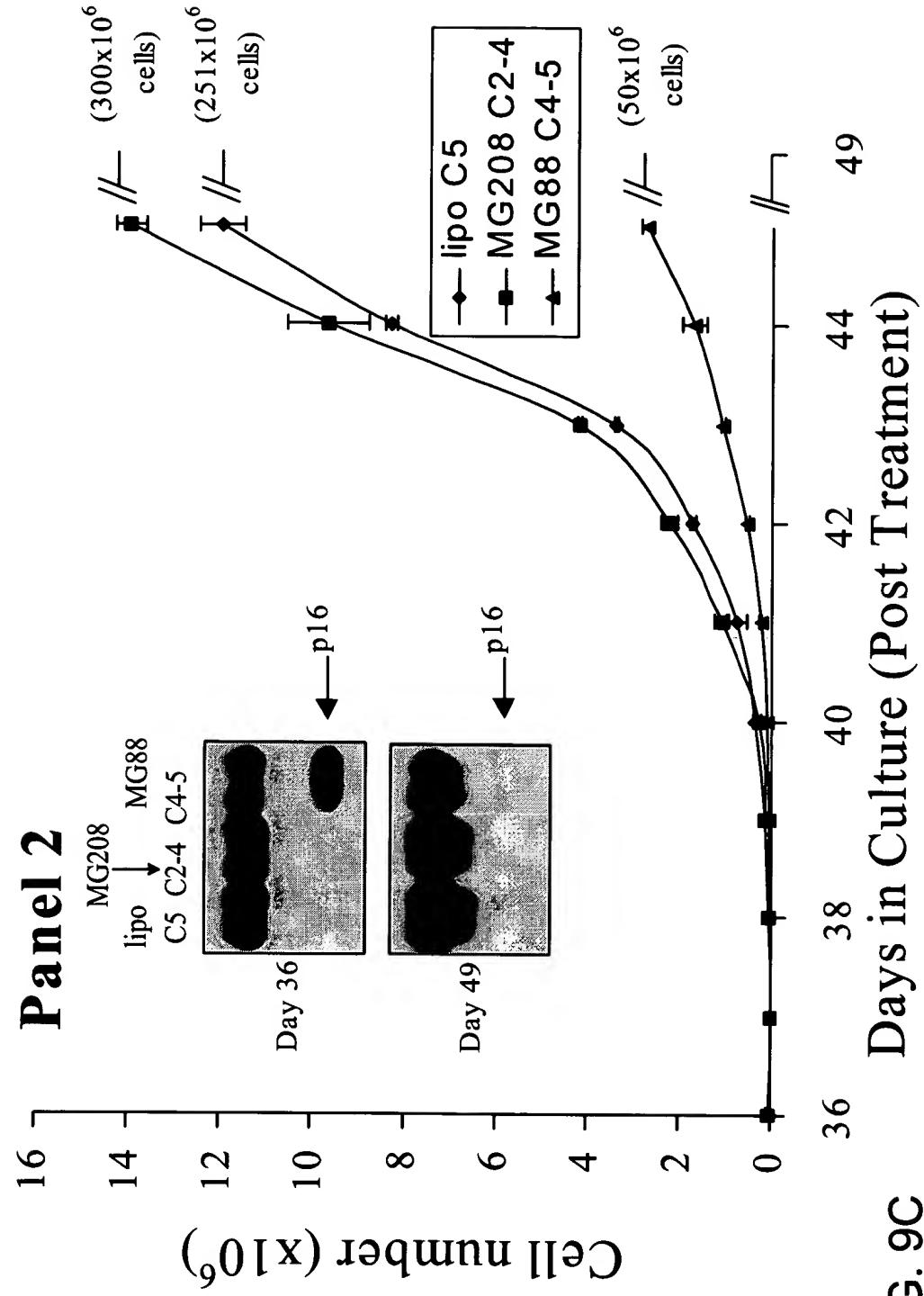
Panel 2

FIG. 9C

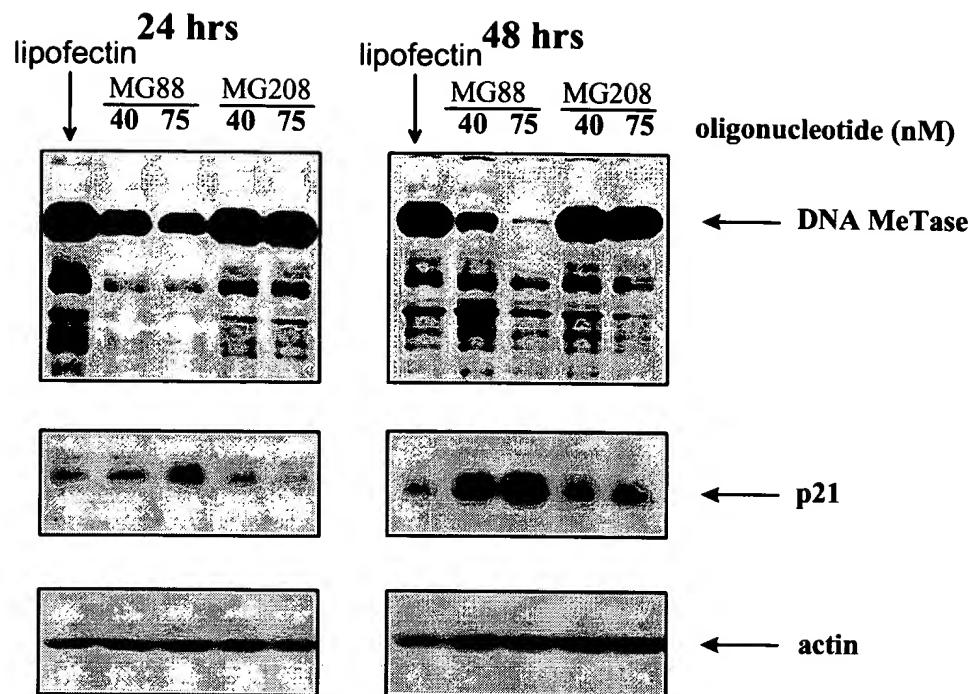


FIG. 10A

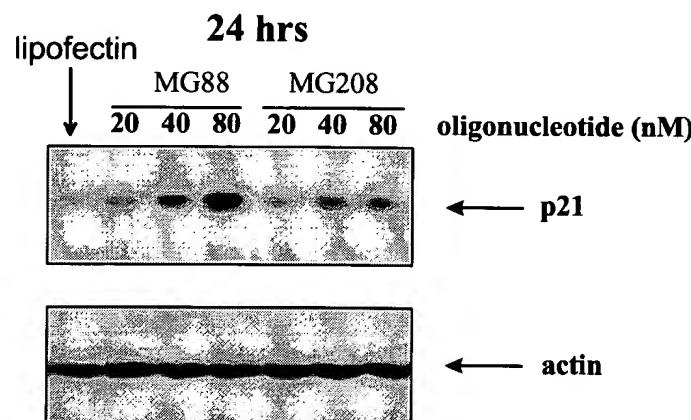


FIG. 10B

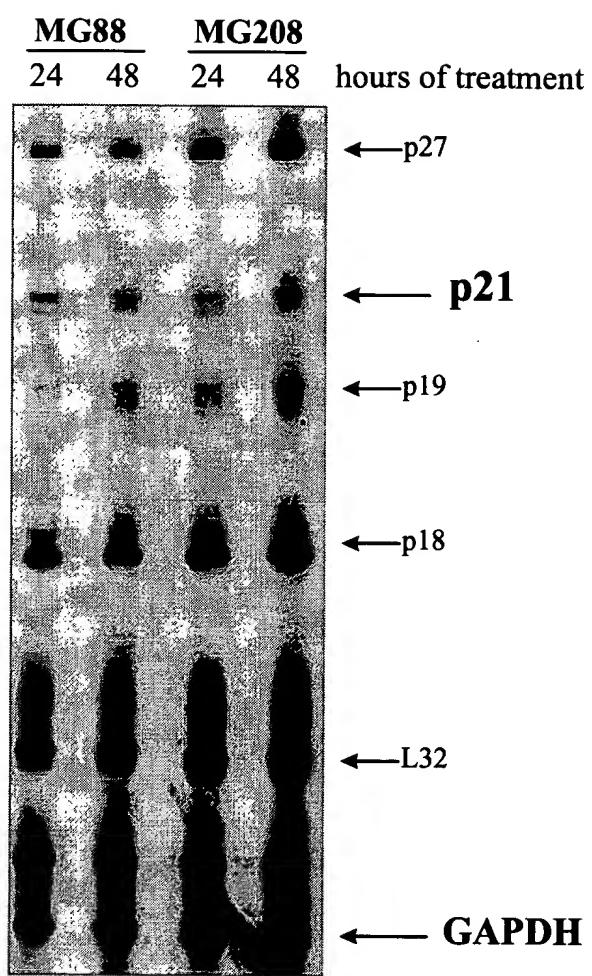
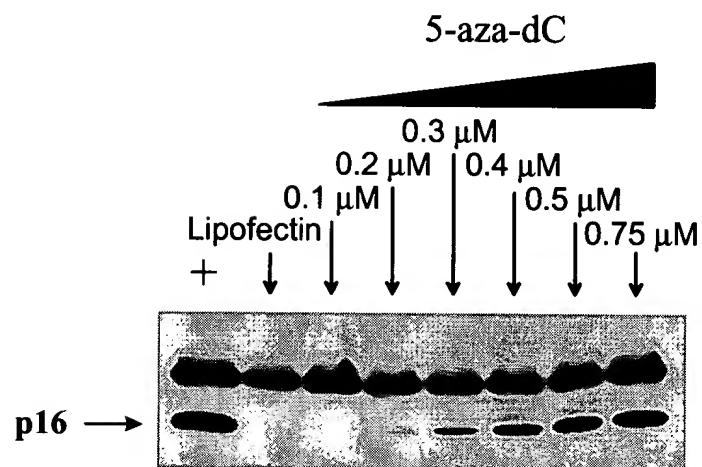


FIG. 11

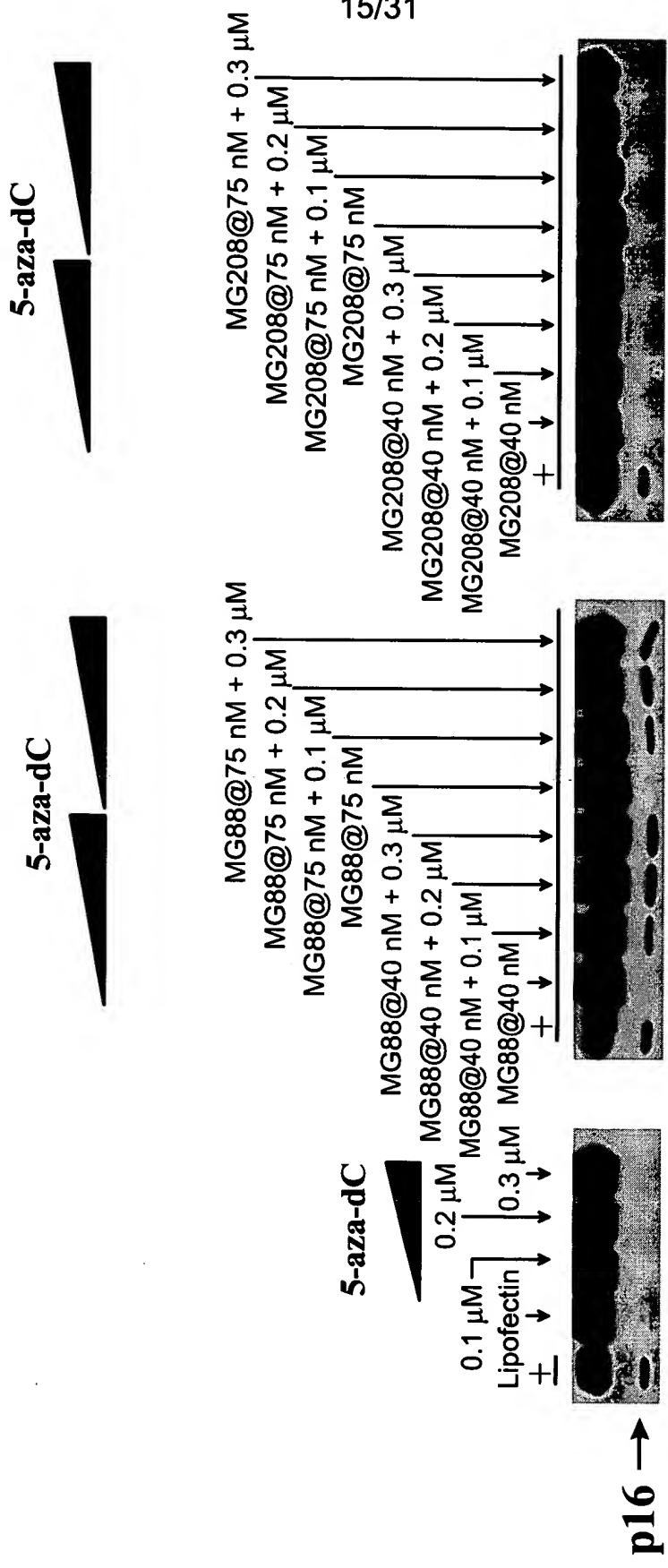
p16 reactivation in T24 cells by 5-aza-deoxycytidine treatment



T24 cells were plated and treated for three days with varying concentrations of 5aza-dC. The p16 protein was immunoprecipitated from cell lysates and a Western analysis was performed.

FIG. 12

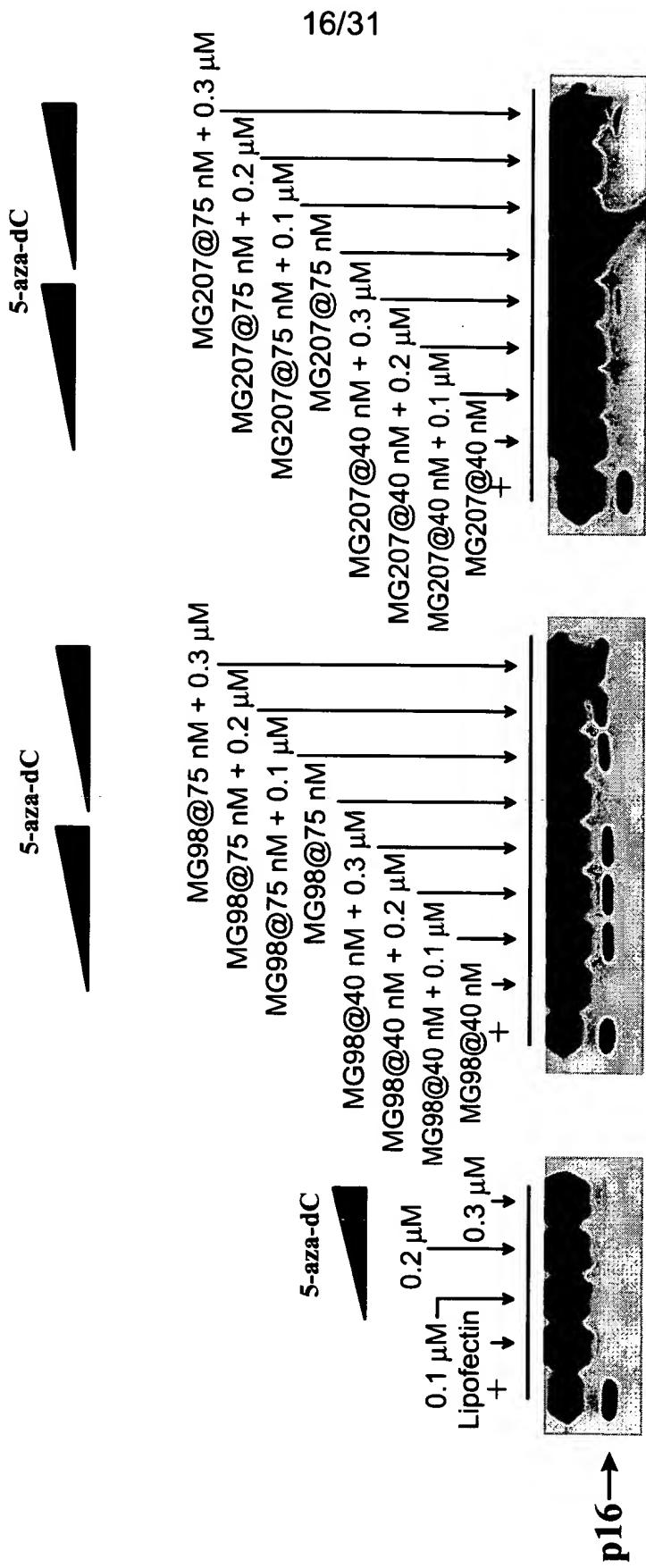
Synergistic reactivation of p16 in T24 cells by treatment with antisense to DNA methyltransferase (MG88) and 5-aza-deoxycytidine.



T24 cells were plated and transfected with either MG88 or MG208 and treated with varying concentrations of 5-aza-dC every day for three days. The p16 protein was immunoprecipitated from cell lysates and a Western analysis was performed.

FIG. 13

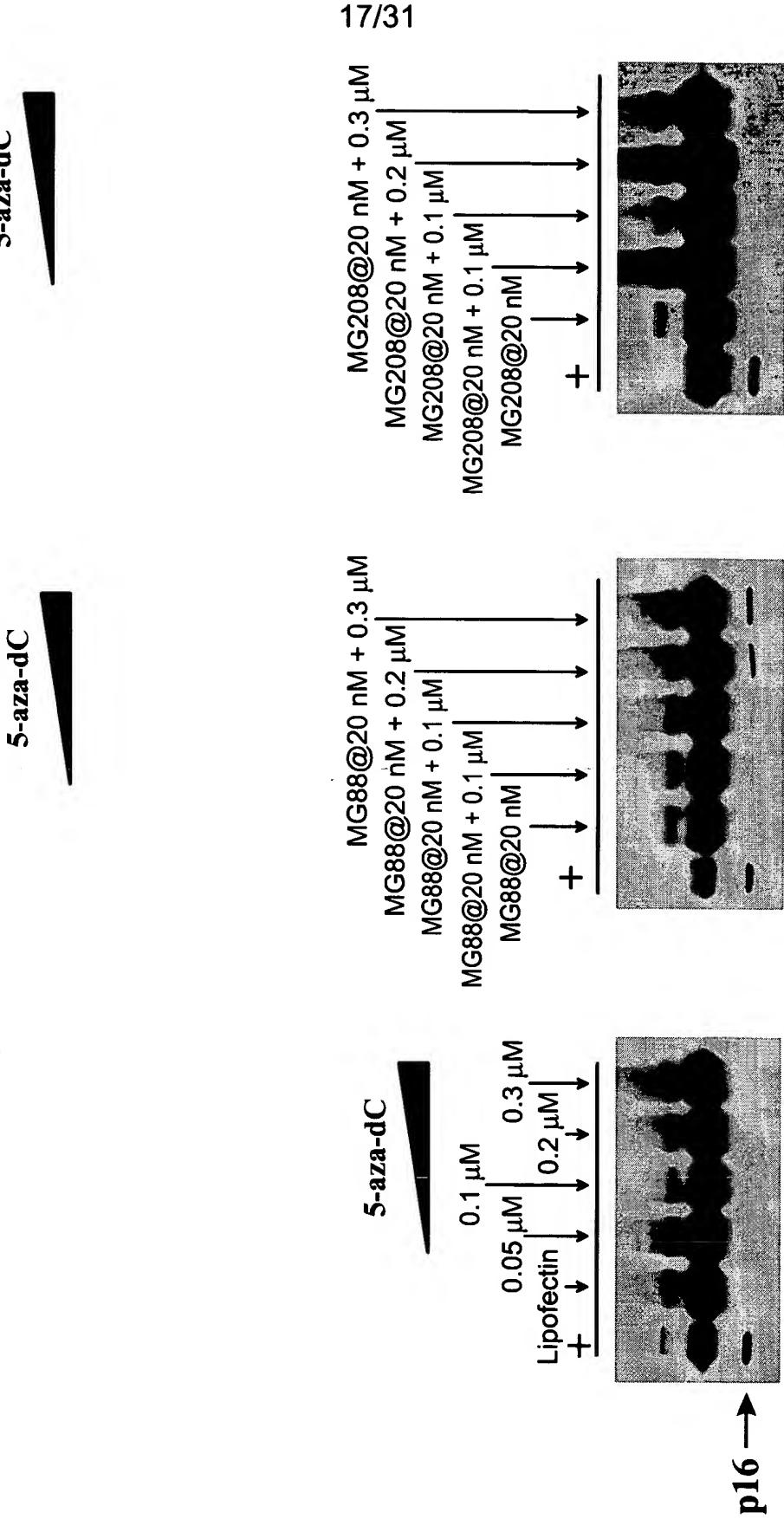
Synergistic reactivation of p16 in T24 cells by treatment with antisense to DNA methyltransferase (MG98) and 5-aza-deoxycytidine.



T24 cells were plated and transfected with either MG98 or MG207 and treated with varying concentrations of 5-aza-dC every day for three days. The p16 protein was immunoprecipitated from cell lysates and a Western analysis was performed.

FIG. 14

Synergistic reactivation of p16 in T24 cells by treatment with low dose antisense to DNA methyltransferase (MG88) and 5-aza-deoxycytidine. 5-aza-dC



T24 cells were plated and transfected with either MG88 or MG 208 and treated with varying concentrations of 5-aza-dC every day for three days. The p16 protein was immunoprecipitated from cell lysates and a Western analysis was performed.

FIG. 15

SYNERGISTIC INHIBITION OF T24 CELL GROWTH BY TREATMENT WITH ANTISENSE TO DNA
METHYLTRANSFERASE (MG98) AND 5-aza-dC.

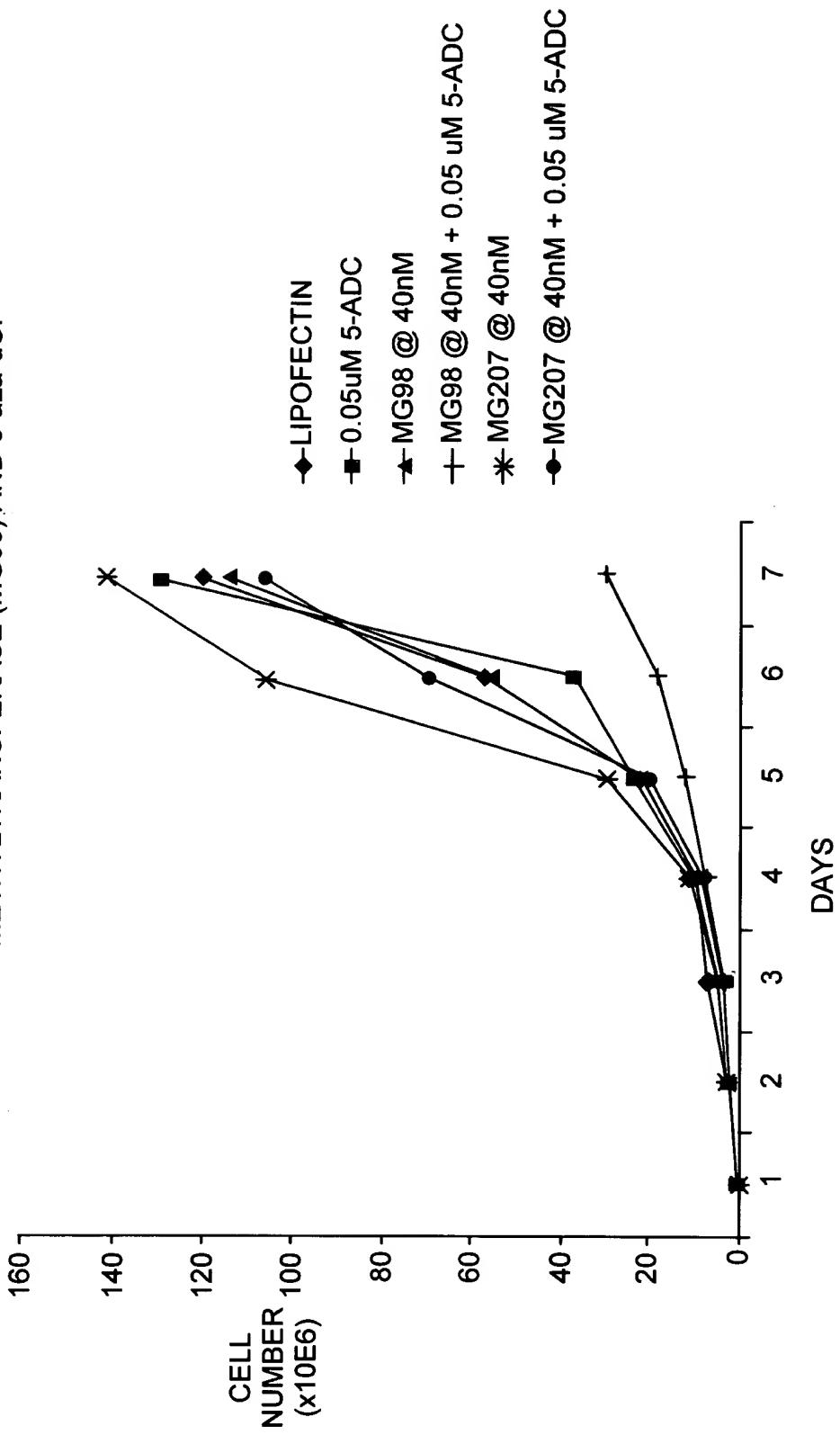


FIG. 16

SYNERGISTIC INHIBITION OF CELL GROWTH BY TREATMENT WITH MG 98 AND 5-Aza-deoxycytidine

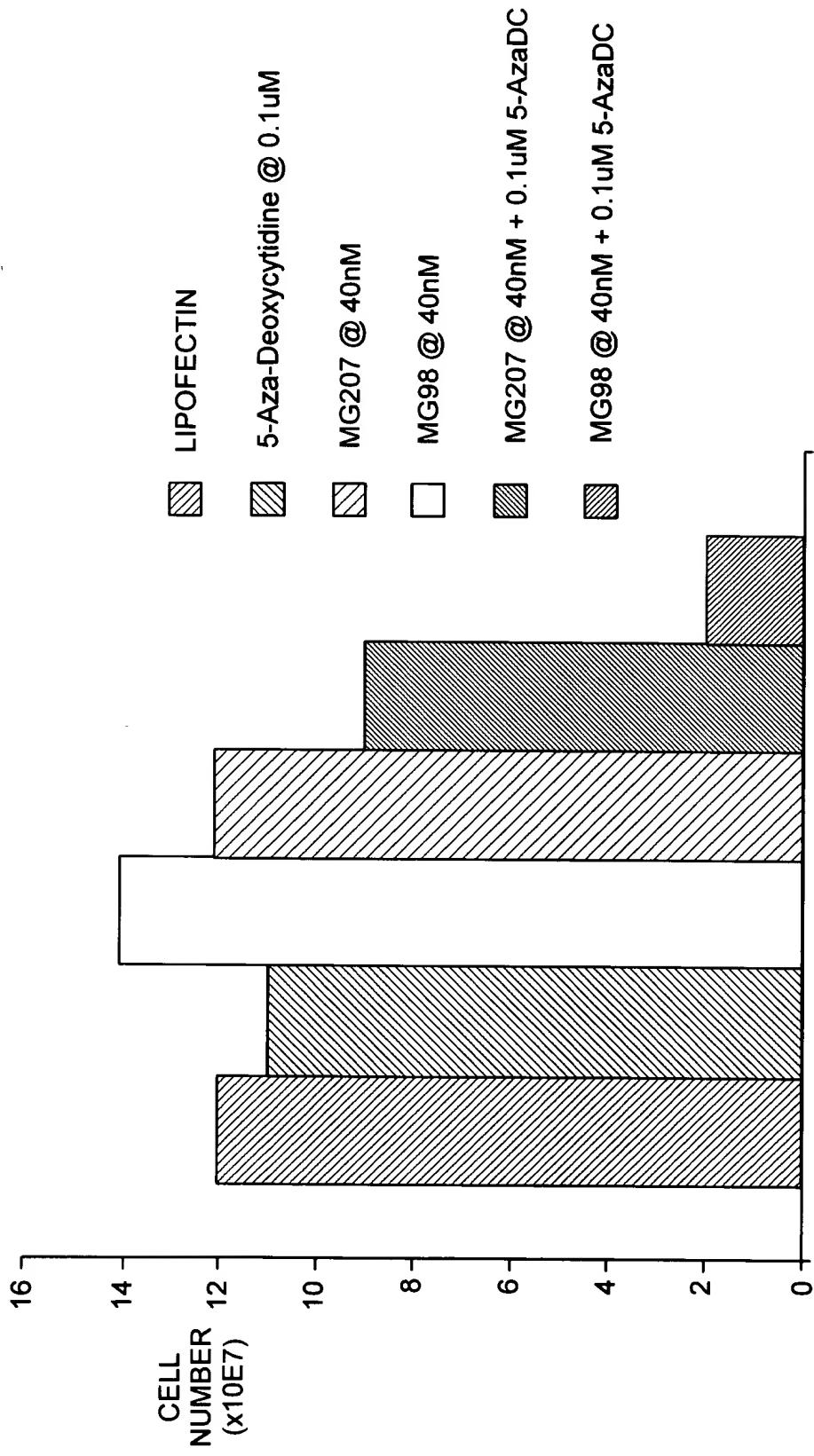


FIG. 17

SYNERGISTIC INHIBITION OF A549 CELL GROWTH BY TREATMENT WITH ANTISENSE TO DNA
METHYLTRANSFERASE (MG98) AND 5-aza-dC.

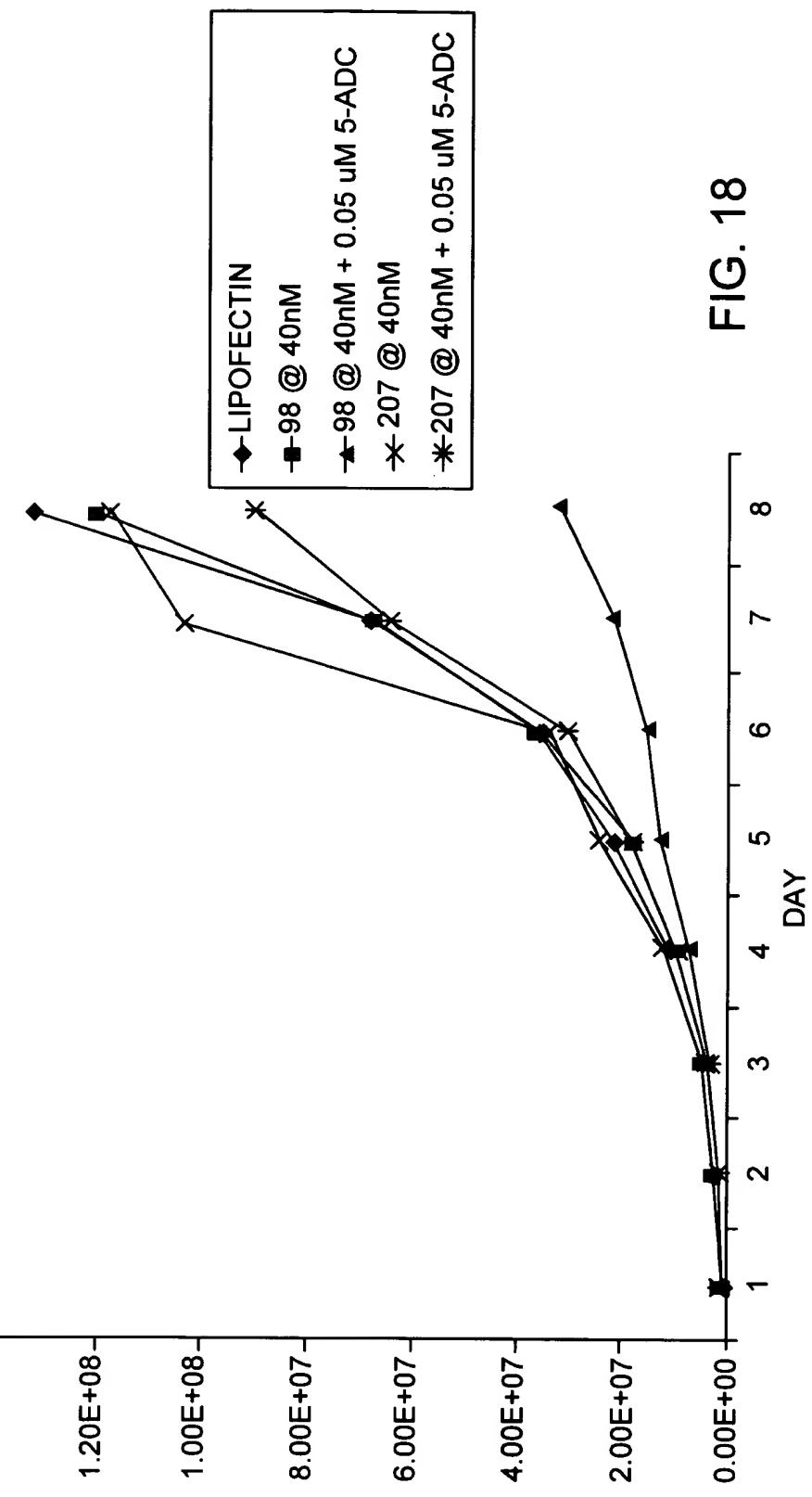


FIG. 18

IN VIVO SYNERGISTIC ANTITUMOR ACTIVITY OF ANTISENSE TO HUMAN DNA
METHYLTRANSFERASE (MG98) COMBINED WITH
A SMALL MOLECULE IN HUMAN COLON CANCER MODEL COLO 205.

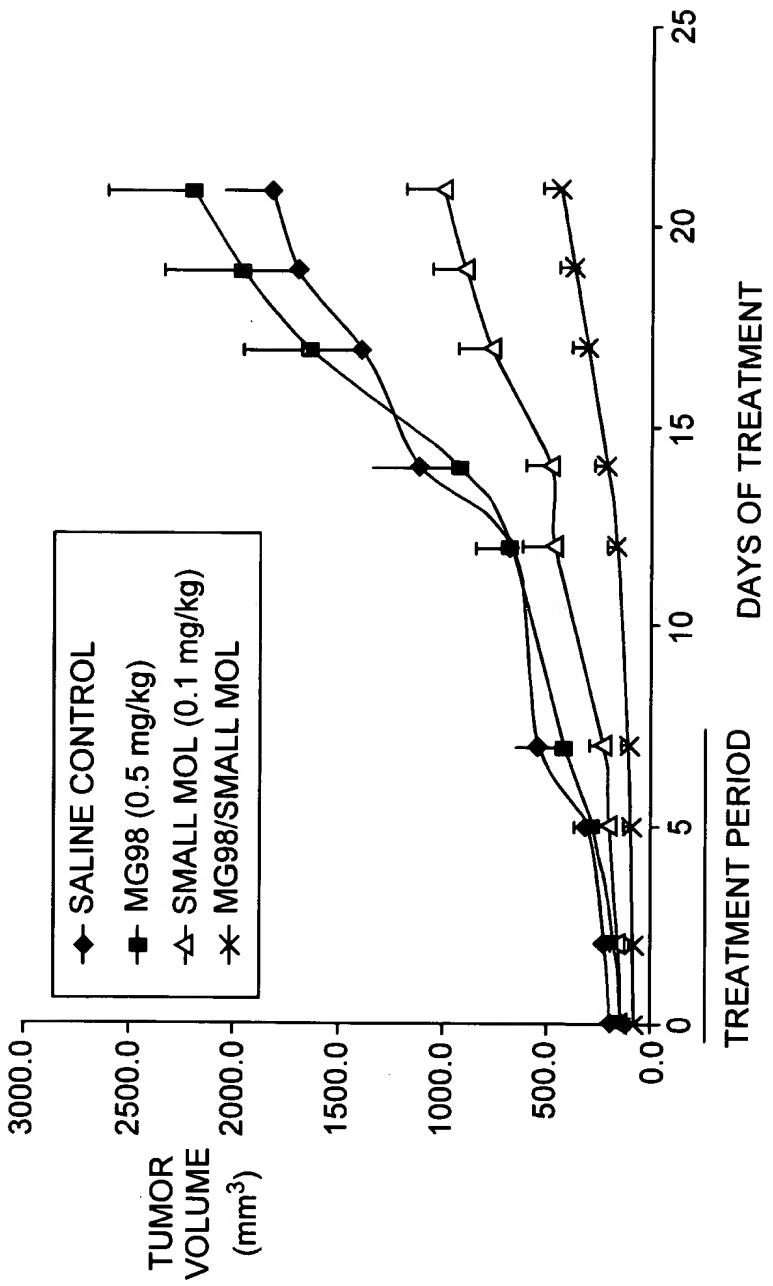


FIG. 19

COMBINATION OF MG98 AND 5-aza-deoxycytosine ON GROWTH
OF Colo205 TUMORS IN NUDE MICE

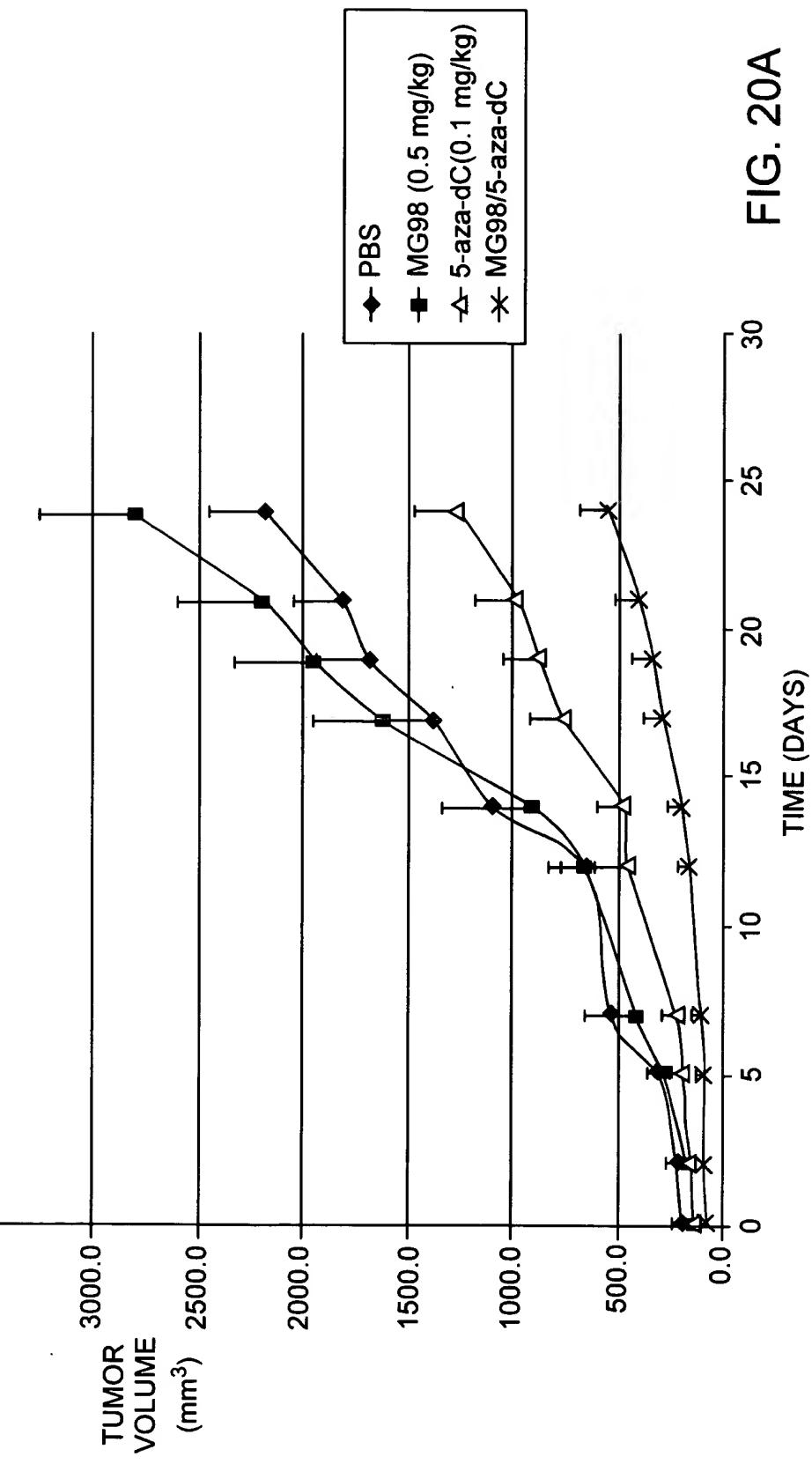
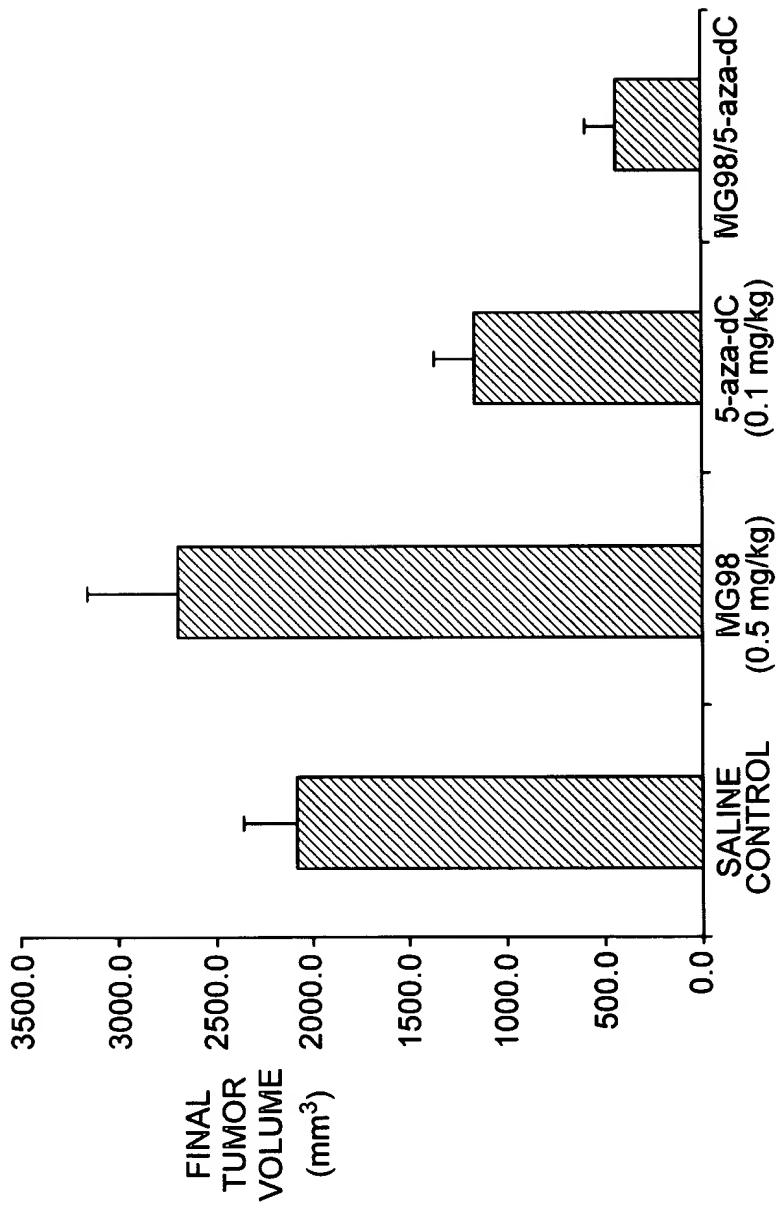


FIG. 20A

FIG. 20B

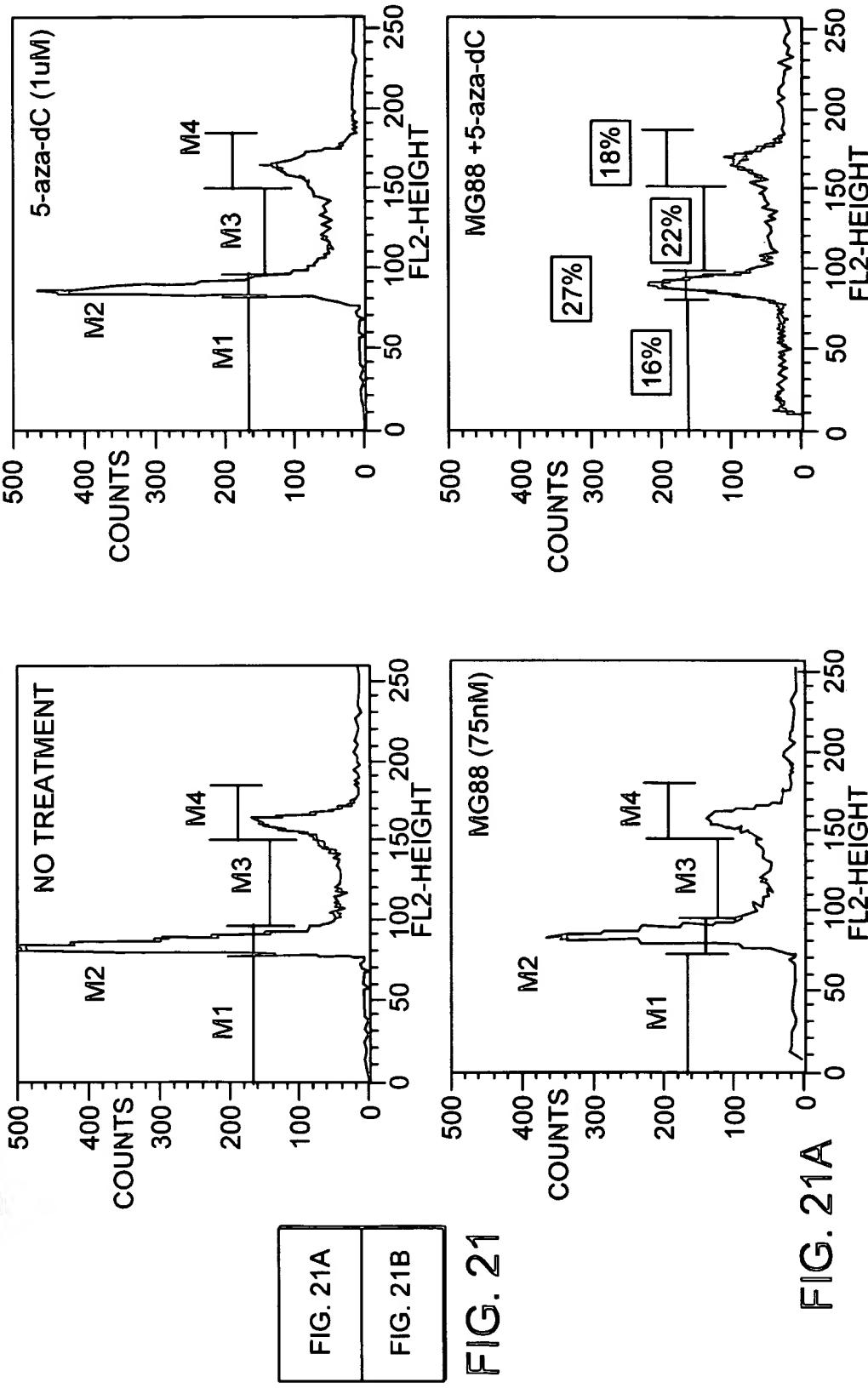
IN VIVO SYNERGISTIC ANTITUMOR ACTIVITY OF ANTISENSE TO HUMAN DNA
METHYLTRANSFERASE (MG98) COMBINED WITH
5-aza-2-deoxycytidine IN HUMAN COLON CANCER MODEL COLO 205.



ANTITUMOR ACTIVITY OF COMBINATION OF MG98 AND 5-aza-2-deoxycytidine. GROUPS ARE: SALINE CONTROL, MG98 (0.5mg/kg/day), 5-aza-2-deoxycytidine (0.1 mg/kg/day), MG98 (0.5 mg/kg/day) AND 5-aza-2-deoxycytidine (0.1 mg/kg/day). GROUPS CONSISTED OF SIX ANIMALS EACH. ERROR BARS REPRESENT SEM. GROUP MG98/5-aza-dC WAS STATISTICALLY DIFFERENT ($p<0.05$) FROM BOTH SALINE TREATED GROUP AND FROM 5-aza-dC TREATED GROUP. GROUP MG98 WAS NOT SIGNIFICANTLY DIFFERENT THAN SALINE CONTROL GROUP.

SCHEDULE INDEPENDENT INHIBITION OF CELL CYCLE PROGRESSION BY COMBINATION OF
DNA MeTase Antisense inhibitor (MG88) AND DNA MeTase Small Molecule Inhibitor (5-aza-dC).

SCHEDULE A: DNA MeTase Antisense Inhibitor (MG88) followed by Small Molecule Inhibitor (5-aza-dC)



**SCHEDULE B: SMALL MOLECULE INHIBITOR (5-aza-dC) followed by DNA
MeTase Antisense Inhibitor (MG88)**

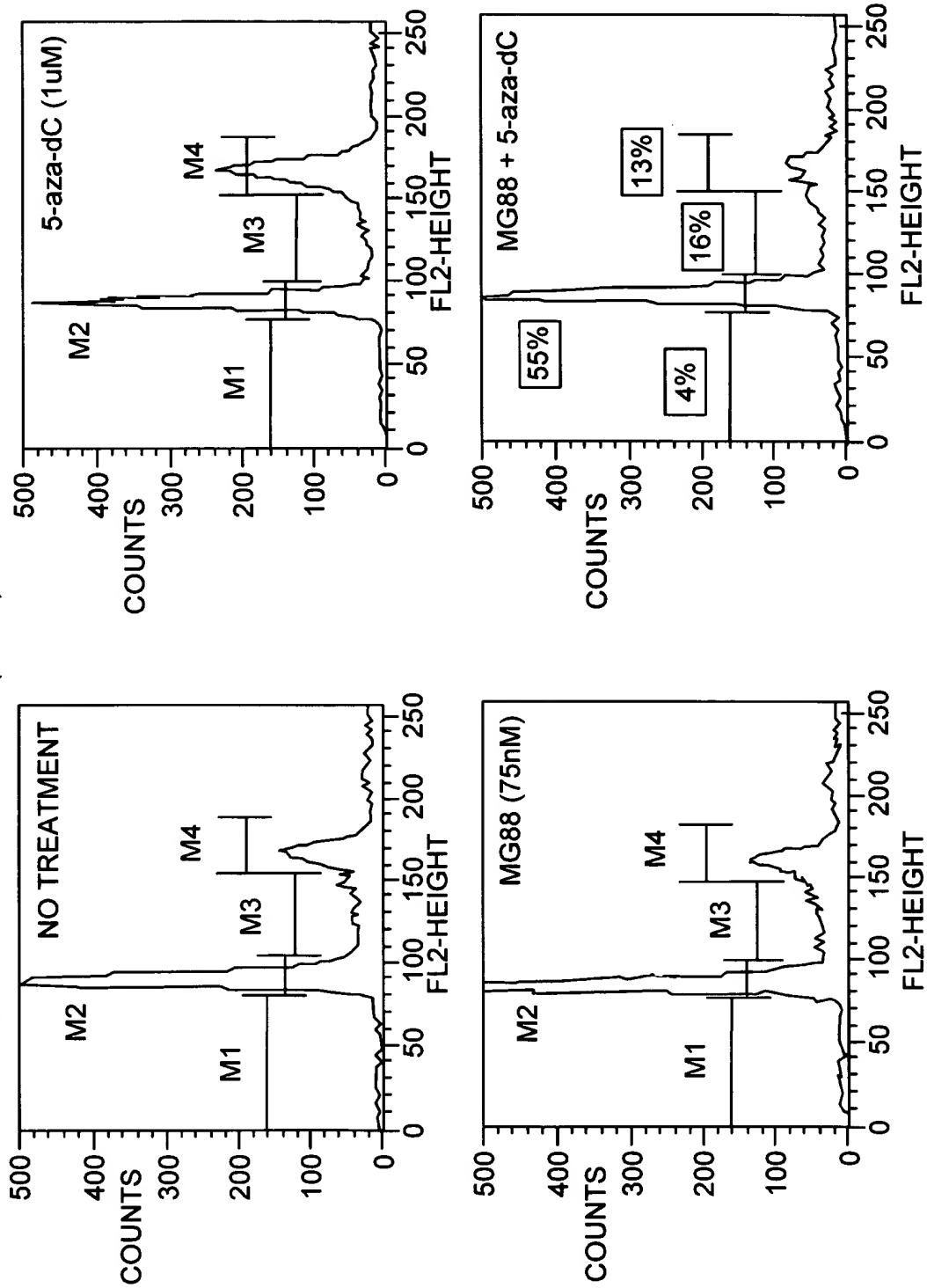


FIG. 21B

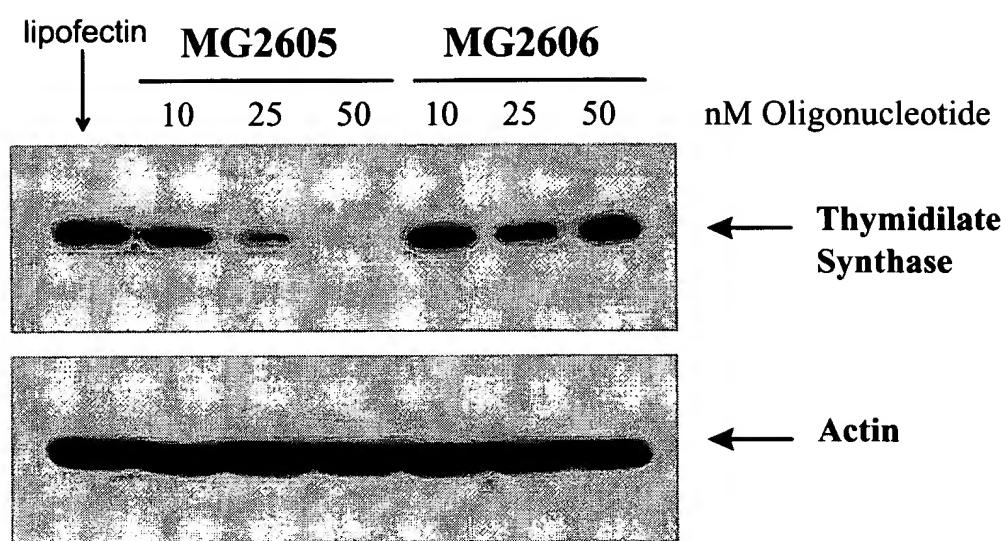


FIG. 22

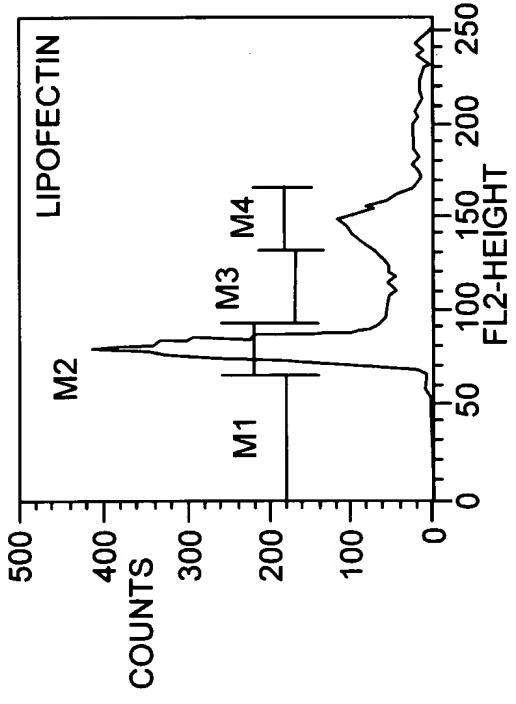
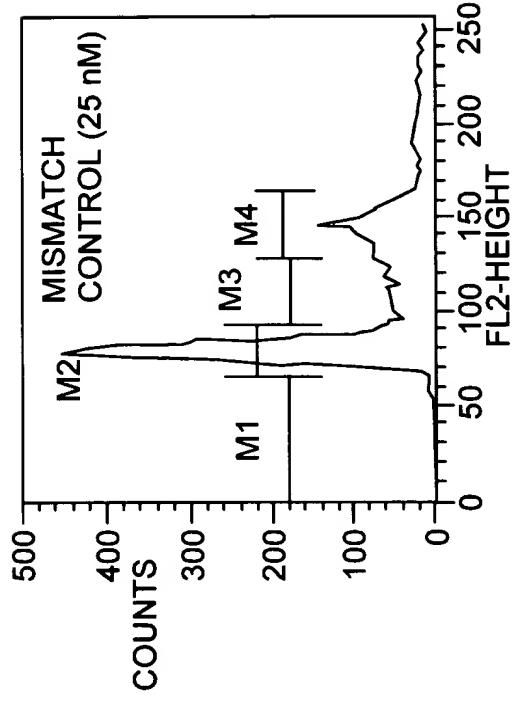


FIG. 23A

FIG. 23B

FIG. 23

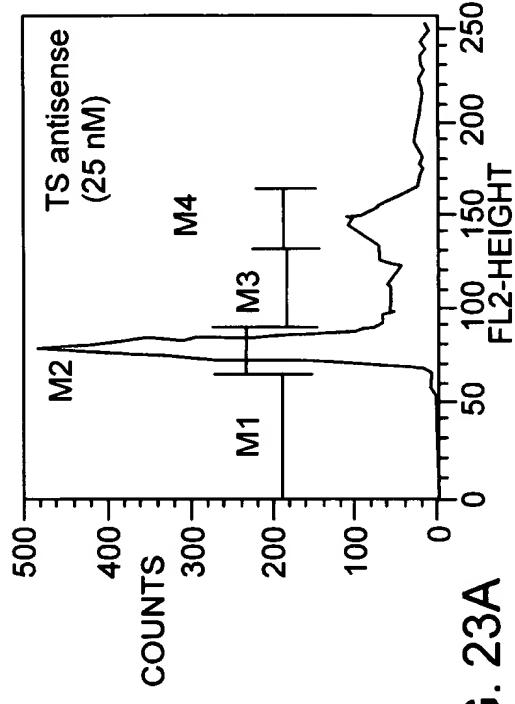
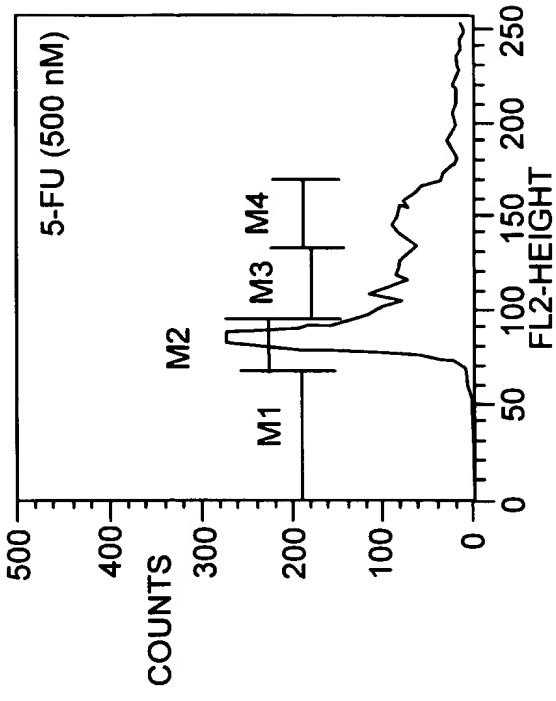


FIG. 23A

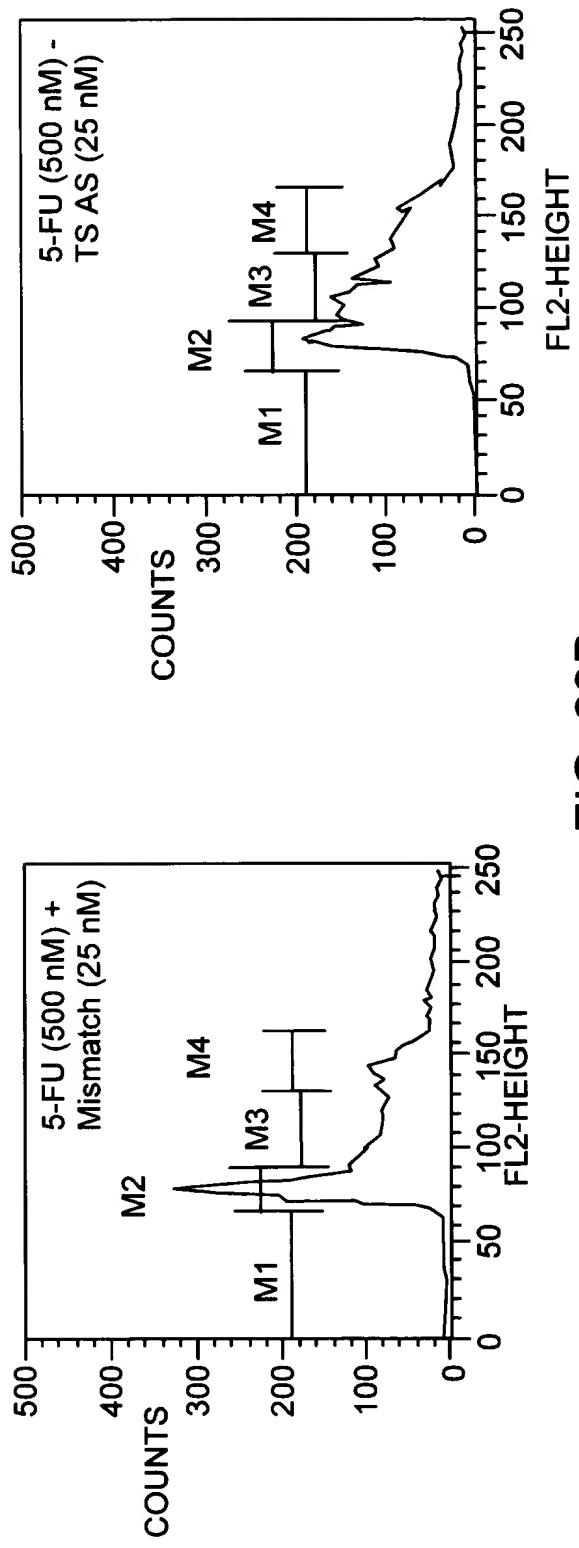
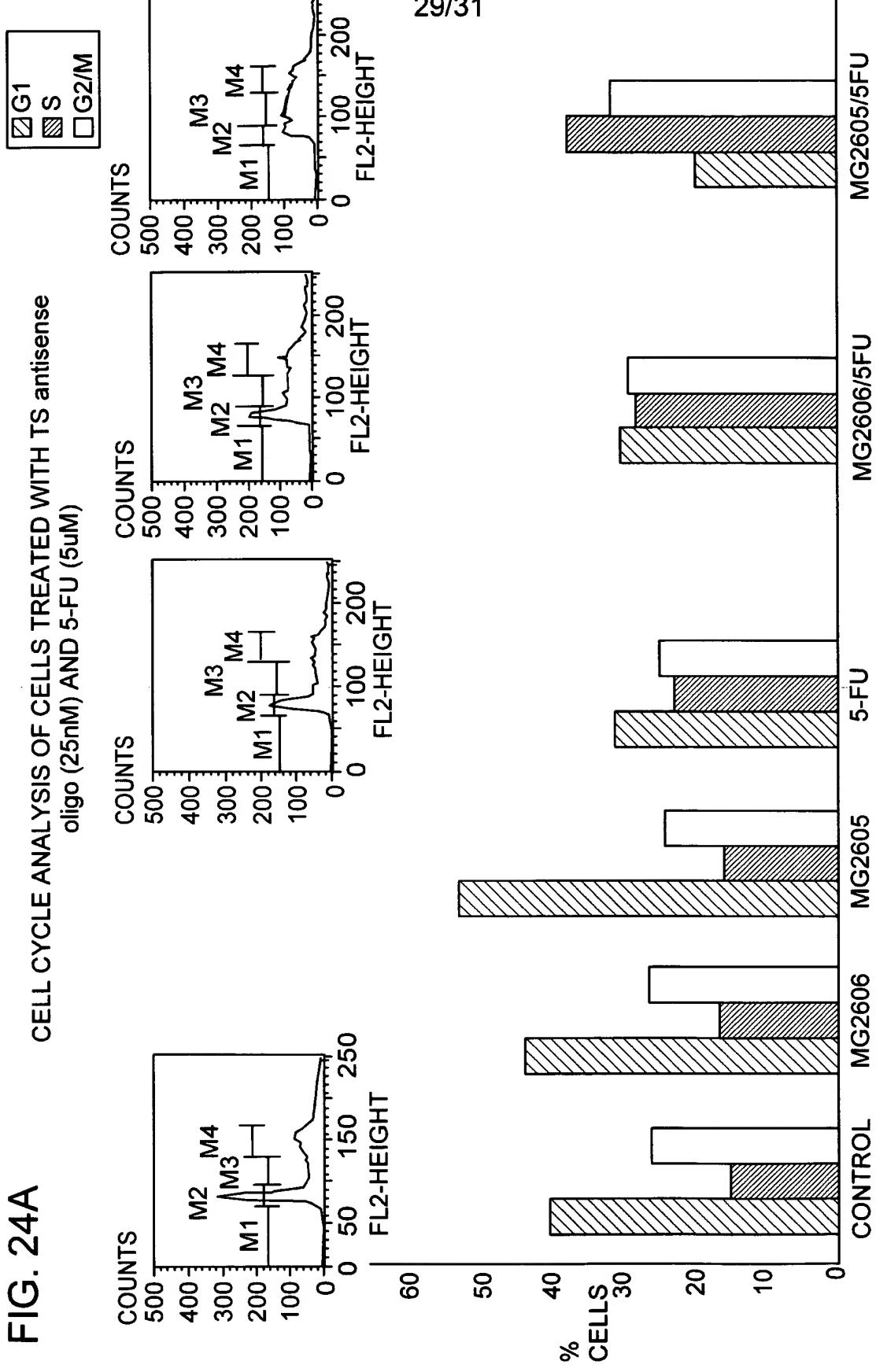


FIG. 23B

FIG. 24A

CELL CYCLE ANALYSIS OF CELLS TREATED WITH TS antisense
oligo (25nM) AND 5-FU (5 μ M)



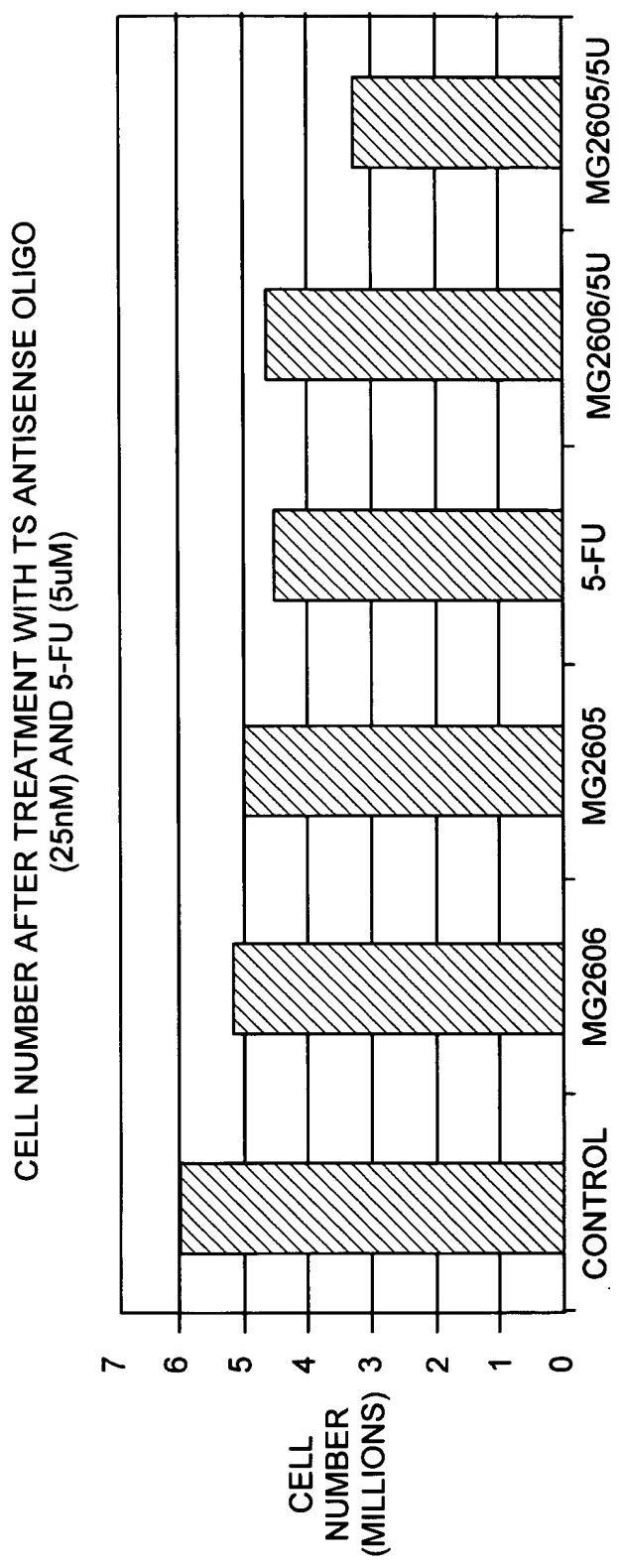


FIG. 24B

Synergistic Induction of p21WAF1/CIP by Combination of HDAC Antisense and TSA

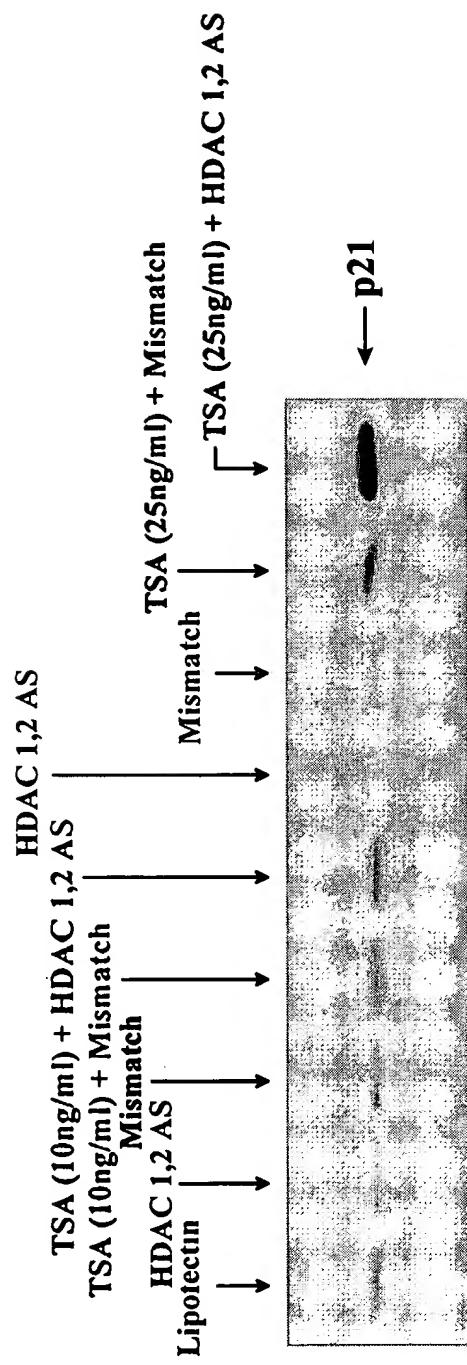


FIG. 25

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